ATTACHMENT E USEPA SPLIT SAMPLE DATA REPORT (ON COMPACT DISC)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory 2890 Woodbridge Avenue Edison , New Jersey 08837 732-906-6886 Phone 732-906-6165 Fax

September 03, 2015

Amelia Jackson Hazardous Waste Support Branch DESA/HWSB Edison, NJ 08837

RE: Ringwood Mines - 1508008

Joe R. Amelon

Enclosed are the results of analyses for samples received by the laboratory on 08/06/2015. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1508008 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon

Chief, DESA/LB



Final Report

Project: Ringwood Mines - 1508008 Project Number: 1508008

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

<u>PCB Aroclors</u> - The Surrogate recoveries in either columns and in some instances both columns were very low on samples 1508008-02, 1508008-03, 1508008-04, 1508008-06 and 1508008-07, thus the Aroclors results on these samples were qualified with "L".

Comment(s):

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

<u>Reporting Limit(s)</u>: The Laboratory was able to achieve the appropriate limits for each analyte requested, except for the following:

<u>Semi-Volatile Organic Compounds</u>: The CRQL for 2,4-Dinitrophenol and 4,6-Dinitro-2-Methylphenol in water is 5.0 ug/L. The Laboratory Reporting Limits is raised due to problems associated with the initial calibration curve for all samples.



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Project: Ringwood Mines - 1508008 Project Number: 1508008

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
OB-19	1508008-01	Aqueous	08/05/2015 10:40	08/06/2015 14:00
OB-20A	1508008-02	Aqueous	08/05/2015 10:35	08/06/2015 14:00
OB-06	1508008-03	Aqueous	08/06/2015 10:05	08/06/2015 14:00
RW-06	1508008-04	Aqueous	08/05/2015 10:30	08/06/2015 14:00
RW-6A	1508008-05	Aqueous	08/04/2015 14:15	08/06/2015 14:00
SC-01	1508008-06	Aqueous	08/04/2015 10:40	08/06/2015 14:00
SC-11	1508008-07	Aqueous	08/04/2015 10:40	08/06/2015 14:00
TB-01	1508008-08	Aqueous	08/04/2015 09:45	08/06/2015 14:00



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SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Mercury	EPA 245.1 SOP C-110 Rev2.4	NELAP	Aqueous
E-Metals ICP TAL	EPA 200.7 SOP C-109 Rev3.3	NELAP	Aqueous
E-Metals ICPMS TAL	EPA 200.8 SOP C-112 Rev 3.3	NELAP	Aqueous
E-PCB Aroclors	EPA 608 SOP C-91 Rev4.0		Aqueous
E-SVOA TCL	EPA 625 SOP C-90 Rev3.4		Aqueous
VOA 524.2 Trace-SF	EPA 524.2 SOP DW-1 Rev2.4	NELAP	Aqueous



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*		
d ID: OB-19		Sample ID: 1508008-01					
VOA-TRACE GCMS							
Dichlorodifluoromethane		U	0.50	ug/L			
Chloromethane		U	0.50	ug/L			
Vinyl Chloride		U	0.50	ug/L			
Bromomethane		UL	0.50	ug/L			
Chloroethane		U	0.50	ug/L			
Trichlorofluoromethane		U	0.50	ug/L			
1,1-Dichloroethene		U	0.50	ug/L			
1,1,2-Trichloro-1,2,2-Trifluoroethane		U	0.50	ug/L			
Carbon Disulfide		U	0.50	ug/L			
Acetone		U	5.0	ug/L			
Methyl Acetate		U	0.50	ug/L			
Methylene Chloride		U	0.50	ug/L			
trans-1,2-Dichloroethene		U	0.50	ug/L			
Methyl tert-Butyl Ether		U	0.50	ug/L			
1,1-Dichloroethane		U	0.50	ug/L			
cis-1,2-Dichloroethene		U	0.50	ug/L			
2-Butanone		U	5.0	ug/L			
Bromochloromethane		U	0.50	ug/L			
Chloroform		U	0.50	ug/L			
1,1,1-Trichloroethane		U	0.50	ug/L			
Cyclohexane		U	0.50	ug/L			
Carbon Tetrachloride		U	0.50	ug/L			
Benzene		U	0.50	ug/L			
1,2-Dichloroethane		U	0.50	ug/L			
Trichloroethene		U	0.50	ug/L			
1,2-Dichloropropane		U	0.50	ug/L			
Bromodichloromethane		U	0.50	ug/L			
cis-1,3-Dichloropropene		U	0.50	ug/L			



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
d ID: OB-19			mple ID: 1508008	-01	
VOA-TRACE GCMS				_	
4-Methyl-2-Pentanone		U	5.0	ug/L	
Toluene		U	0.50	ug/L	
trans-1,3-Dichloropropene		U	0.50	ug/L	
1,1,2-Trichloroethane		U	0.50	ug/L	
Tetrachloroethene		U	0.50	ug/L	
Methylcyclohexane		U	0.50	ug/L	
Dibromochloromethane		U	0.50	ug/L	
1,2-Dibromoethane		U	0.50	ug/L	
2-Hexanone		U	5.0	ug/L	
Chlorobenzene		U	0.50	ug/L	
Ethylbenzene		U	0.50	ug/L	
m/p-Xylene		U	0.50	ug/L	
o-Xylene		U	0.50	ug/L	
Styrene		U	0.50	ug/L	
Bromoform		U	0.50	ug/L	
Isopropylbenzene		U	0.50	ug/L	
1,1,2,2-Tetrachloroethane		U	0.50	ug/L	
1,3-Dichlorobenzene		U	0.50	ug/L	
1,4-Dichlorobenzene		U	0.50	ug/L	
1,2-Dichlorobenzene		U	0.50	ug/L	
1,2-Dibromo-3-Chloropropane		U	0.50	ug/L	
1,2,4-Trichlorobenzene		U	0.50	ug/L	
1,2,3-Trichlorobenzene		U	0.50	ug/L	
NVOA GCMS					
1,4-Dioxane		U	1.9	ug/L	
N-Nitrosodimethylamine		U	4.8	ug/L	
Benzaldehyde		U	4.8	ug/L	
Phenol		U	4.8	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: OB-19			Sam	nple ID: 150800	08-01
NVOA GCMS					
Bis(2-Chloroethyl)Ether		U	4.8	ug/L	
2-Chlorophenol		U	4.8	ug/L	
2-Methylphenol		U	4.8	ug/L	
Bis(2-Chloroisopropyl)Ether		U	4.8	ug/L	
Acetophenone		U	4.8	ug/L	
4-Methylphenol		U	4.8	ug/L	
N-Nitroso-Di-N-Propylamine		U	4.8	ug/L	
Hexachloroethane		UL	4.8	ug/L	
Nitrobenzene		U	4.8	ug/L	
Isophorone		U	4.8	ug/L	
2-Nitrophenol		U	4.8	ug/L	
2,4-Dimethylphenol		U	4.8	ug/L	
Bis(-2-Chloroethoxy)Methane		U	4.8	ug/L	
2,4-Dichlorophenol		U	4.8	ug/L	
1,2,4-Trichlorobenzene		U	4.8	ug/L	
Naphthalene		U	4.8	ug/L	
4-Chloroaniline		UL	4.8	ug/L	
Hexachlorobutadiene		U	4.8	ug/L	
Caprolactam		U	4.8	ug/L	
4-Chloro-3-Methylphenol		U	4.8	ug/L	
2-Methylnaphthalene		U	4.8	ug/L	
1,2,4,5-Tetrachlorobenzene		U	4.8	ug/L	
Hexachlorocyclopentadiene		U	4.8	ug/L	
2,4,6-Trichlorophenol		U	4.8	ug/L	
2,4,5-Trichlorophenol		U	4.8	ug/L	
Biphenyl		U	4.8	ug/L	
2-Chloronaphthalene		U	4.8	ug/L	
2-Nitroaniline		U	4.8	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
d ID: OB-19			San	nple ID: 1508008-0	1
NVOA GCMS					
Dimethyl Phthalate		UL	4.8	ug/L	
Acenaphthylene		U	4.8	ug/L	
2,6-Dinitrotoluene		U	4.8	ug/L	
3-Nitroaniline		U	4.8	ug/L	
Acenaphthene		U	4.8	ug/L	
2,4-Dinitrophenol		U	24	ug/L	
4-Nitrophenol		U	4.8	ug/L	
Dibenzofuran		U	4.8	ug/L	
2,4-Dinitrotoluene		U	4.8	ug/L	
2,3,4,6-Tetrachlorophenol		U	4.8	ug/L	
Fluorene		U	4.8	ug/L	
Diethylphthalate		U	4.8	ug/L	
4-Chlorophenyl-Phenylether		U	4.8	ug/L	
4-Nitroaniline		UL	4.8	ug/L	
4,6-Dinitro-2-Methylphenol		U	9.5	ug/L	
N-Nitrosodiphenylamine		UL	4.8	ug/L	
4-Bromophenyl-Phenylether		U	4.8	ug/L	
Hexachlorobenzene		U	4.8	ug/L	
Atrazine		U	4.8	ug/L	
Pentachlorophenol		U	4.8	ug/L	
Phenanthrene		U	4.8	ug/L	
Anthracene		U	4.8	ug/L	
Carbazole		UL	4.8	ug/L	
Di-N-Butyl Phthalate		U	4.8	ug/L	
Fluoranthene		U	4.8	ug/L	
Pyrene		U	4.8	ug/L	
Butylbenzylphthalate		U	4.8	ug/L	
3,3'- Dichlorobenzidine		U	4.8	ug/L	



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NVOA GCMS Benzo(A)Anthracene Chrysene			Sam	ple ID: 1508008	
Benzo(A)Anthracene Chrysene				ipic 1D. 1308000	3-01
Chrysene					
		U	4.8	ug/L	
Dis(2) Ethanlla annal Dhatla alada		U	4.8	ug/L	
Bis(2-Ethylhexyl)Phthalate		U	4.8	ug/L	
Di-N-Octyl Phthalate		U	4.8	ug/L	
Benzo(B)Fluoranthene		U	4.8	ug/L	
Benzo(K)Fluoranthene		U	4.8	ug/L	
Benzo(A)Pyrene		U	4.8	ug/L	
Indeno(1,2,3-Cd)Pyrene		U	4.8	ug/L	
Dibenzo(A,H)Anthracene		U	4.8	ug/L	
Benzo(G,H,I)Perylene		U	4.8	ug/L	
PCB Aroclors GC					
Aroclor 1016		U	0.03	ug/L	
Aroclor 1221		U	0.06	ug/L	
Aroclor 1232		U	0.03	ug/L	
Aroclor 1242		UL	0.03	ug/L	
Aroclor 1248		U	0.03	ug/L	
Aroclor 1254		U	0.03	ug/L	
Aroclor 1260		U	0.03	ug/L	
Aroclor 1262		U	0.03	ug/L	
Aroclor 1268		U	0.03	ug/L	
Metals ICP					
Calcium	13000		500	ug/L	
Iron	18000		50	ug/L	
Magnesium	2500		500	ug/L	
Potassium	870		500	ug/L	
Sodium	3000		1000	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: OB-19			Sa	mple ID: 150800	98-01
Metals ICPMS					
Aluminum	27		20	ug/L	
Antimony		U	1.0	ug/L	
Arsenic	2.0		1.0	ug/L	
Barium	75		1.0	ug/L	
Beryllium		U	1.0	ug/L	
Cadmium		U	1.0	ug/L	
Chromium		U	2.0	ug/L	
Cobalt		U	1.0	ug/L	
Copper		U	1.0	ug/L	
Lead		U	1.0	ug/L	
Manganese	410		1.0	ug/L	
Nickel		U	1.0	ug/L	
Selenium		U	1.0	ug/L	
Silver		U	1.0	ug/L	
Thallium		U	1.0	ug/L	
Vanadium	2.7		1.0	ug/L	
Zinc	51		2.0	ug/L	
Mercury CVAA Mercury		U	0.20	ug/L	
Field ID: OB-20A			_	imple ID: 150800	18-02
				<u> </u>	
VOA-TRACE GCMS Dichlorodifluoromethane		U	0.50	ug/L	
Chloromethane		U	0.50	ug/L ug/L	
Vinyl Chloride		U	0.50	ug/L ug/L	
Bromomethane		U	0.50	ug/L ug/L	
Chloroethane		U	0.50	ug/L ug/L	
Trichlorofluoromethane		U	0.50	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: OB-20A			Sam	nple ID: 1508008-02	
VOA-TRACE GCMS		11	0.50	/I	
1,1-Dichloroethene 1,1,2-Trichloro-1,2,2-Trifluoroethane		U U	0.50	ug/L	
Carbon Disulfide		U	0.50	ug/L ug/L	
Acetone		U	5.0	ug/L ug/L	
Methyl Acetate		U	0.50		
Methylene Chloride		U	0.50	ug/L	
trans-1,2-Dichloroethene			0.50	ug/L	
Methyl tert-Butyl Ether		U U	0.50	ug/L ug/L	
1,1-Dichloroethane		U	0.50	ug/L ug/L	
cis-1,2-Dichloroethene		U	0.50	ug/L ug/L	
2-Butanone		U	5.0	ug/L ug/L	
Bromochloromethane		U	0.50	ug/L ug/L	
Chloroform		U	0.50	ug/L ug/L	
1,1,1-Trichloroethane		U	0.50	ug/L ug/L	
Cyclohexane		U	0.50	ug/L ug/L	
Carbon Tetrachloride		U	0.50	ug/L ug/L	
Benzene		U	0.50	ug/L ug/L	
1,2-Dichloroethane		U	0.50		
Trichloroethene		U	0.50	ug/L	
		U	0.50	ug/L	
1,2-Dichloropropane Bromodichloromethane		U	0.50	ug/L ug/L	
cis-1,3-Dichloropropene 4-Methyl-2-Pentanone		U U	0.50 5.0	ug/L	
Toluene		U	0.50	ug/L	
		U	0.50	ug/L ug/L	
trans-1,3-Dichloropropene 1,1,2-Trichloroethane		U	0.50		
Tetrachloroethene		U		ug/L	
			0.50	ug/L	
Methylcyclohexane		U	0.50	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
d ID: OB-20A			San	mple ID: 1508008	-02
VOA-TRACE GCMS				_	
Dibromochloromethane		U	0.50	ug/L	
1,2-Dibromoethane		U	0.50	ug/L	
2-Hexanone		U	5.0	ug/L	
Chlorobenzene		U	0.50	ug/L	
Ethylbenzene		U	0.50	ug/L	
m/p-Xylene		U	0.50	ug/L	
o-Xylene		U	0.50	ug/L	
Styrene		U	0.50	ug/L	
Bromoform		U	0.50	ug/L	
Isopropylbenzene		U	0.50	ug/L	
1,1,2,2-Tetrachloroethane		U	0.50	ug/L	
1,3-Dichlorobenzene		U	0.50	ug/L	
1,4-Dichlorobenzene		U	0.50	ug/L	
1,2-Dichlorobenzene		U	0.50	ug/L	
1,2-Dibromo-3-Chloropropane		U	0.50	ug/L	
1,2,4-Trichlorobenzene		U	0.50	ug/L	
1,2,3-Trichlorobenzene		U	0.50	ug/L	
NVOA GCMS			1.0	. /T	
1,4-Dioxane		U	1.9	ug/L	
N-Nitrosodimethylamine		U	4.7	ug/L	
Benzaldehyde		U	4.7	ug/L	
Phenol		U	4.7	ug/L	
Bis(2-Chloroethyl)Ether		U	4.7	ug/L	
2-Chlorophenol		U	4.7	ug/L	
2-Methylphenol		U	4.7	ug/L	
Bis(2-Chloroisopropyl)Ether		U	4.7	ug/L	
Acetophenone		U	4.7	ug/L	
4-Methylphenol		U	4.7	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: OB-20A			Sam	ple ID: 1508008-02	
NVOA GCMS			4.7	/ T	
N-Nitroso-Di-N-Propylamine		U	4.7	ug/L	
Hexachloroethane		U	4.7	ug/L	
Nitrobenzene		U	4.7	ug/L	
Isophorone		U	4.7	ug/L	
2-Nitrophenol		U	4.7	ug/L	
2,4-Dimethylphenol		U	4.7	ug/L	
Bis(-2-Chloroethoxy)Methane		U	4.7	ug/L	
2,4-Dichlorophenol		U	4.7	ug/L	
1,2,4-Trichlorobenzene		U	4.7	ug/L	
Naphthalene		U	4.7	ug/L	
4-Chloroaniline		U	4.7	ug/L	
Hexachlorobutadiene		U	4.7	ug/L	
Caprolactam		U	4.7	ug/L	
4-Chloro-3-Methylphenol		U	4.7	ug/L	
2-Methylnaphthalene		U	4.7	ug/L	
1,2,4,5-Tetrachlorobenzene		U	4.7	ug/L	
Hexachlorocyclopentadiene		U	4.7	ug/L	
2,4,6-Trichlorophenol		U	4.7	ug/L	
2,4,5-Trichlorophenol		U	4.7	ug/L	
Biphenyl		U	4.7	ug/L	
2-Chloronaphthalene		U	4.7	ug/L	
2-Nitroaniline		U	4.7	ug/L	
Dimethyl Phthalate		U	4.7	ug/L	
Acenaphthylene		U	4.7	ug/L	
2,6-Dinitrotoluene		U	4.7	ug/L	
3-Nitroaniline		U	4.7	ug/L	
Acenaphthene		U	4.7	ug/L	
2,4-Dinitrophenol		U	24	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: OB-20A			Sam	nple ID: 1508008-02	
NVOA GCMS		***	4.7	/T	
4-Nitrophenol		U	4.7	ug/L	
Dibenzofuran		U	4.7	ug/L	
2,4-Dinitrotoluene		U	4.7	ug/L	
2,3,4,6-Tetrachlorophenol		U	4.7	ug/L	
Fluorene		U	4.7	ug/L	
Diethylphthalate		U	4.7	ug/L	
4-Chlorophenyl-Phenylether		U	4.7	ug/L	
4-Nitroaniline		UL	4.7	ug/L	
4,6-Dinitro-2-Methylphenol		U	9.4	ug/L	
N-Nitrosodiphenylamine		UL	4.7	ug/L	
4-Bromophenyl-Phenylether		U	4.7	ug/L	
Hexachlorobenzene		U	4.7	ug/L	
Atrazine		U	4.7	ug/L	
Pentachlorophenol		U	4.7	ug/L	
Phenanthrene		U	4.7	ug/L	
Anthracene		U	4.7	ug/L	
Carbazole		UL	4.7	ug/L	
Di-N-Butyl Phthalate		U	4.7	ug/L	
Fluoranthene		U	4.7	ug/L	
Pyrene		U	4.7	ug/L	
Butylbenzylphthalate		U	4.7	ug/L	
3,3'- Dichlorobenzidine		U	4.7	ug/L	
Benzo(A)Anthracene		U	4.7	ug/L	
Chrysene		U	4.7	ug/L	
Bis(2-Ethylhexyl)Phthalate		U	4.7	ug/L	
Di-N-Octyl Phthalate		U	4.7	ug/L	
Benzo(B)Fluoranthene		U	4.7	ug/L	
Benzo(K)Fluoranthene		U	4.7	ug/L	



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		Reporting	Date and Time of
Analyte	Result Qualifier	Limit Units	Analysis*

Analyte	Result	Qualifier	Limit	Units	Analysis*
d ID: OB-20A			Sample ID: 1508008-0		-02
NVOA GCMS					
Benzo(A)Pyrene		U	4.7	ug/L	
Indeno(1,2,3-Cd)Pyrene		U	4.7	ug/L	
Dibenzo(A,H)Anthracene		U	4.7	ug/L	
Benzo(G,H,I)Perylene		U	4.7	ug/L	
Benzenesulfonamide, N-cyclo	9.0	NJ		ug/L	
PCB Aroclors GC Aroclor 1016		UL	0.03	ug/L	
Aroclor 1221		UL	0.06	ug/L	
Aroclor 1232		UL	0.03	ug/L	
Aroclor 1242		UL	0.03	ug/L	
Aroclor 1248		UL	0.03	ug/L	
Aroclor 1254		UL	0.03	ug/L	
Aroclor 1260		UL	0.03	ug/L	
Aroclor 1262		UL	0.03	ug/L	
Aroclor 1268		UL	0.03	ug/L	
Metals ICP					
Calcium	28000		500	ug/L	
Iron	32000		50	ug/L	
Magnesium	2900		500	ug/L	
Potassium	2200		500	ug/L	
Sodium	3000		1000	ug/L	
Metals ICPMS					
Aluminum	130		20	ug/L	
Antimony		U	1.0	ug/L	
Arsenic	6.6		1.0	ug/L	
Barium	120		1.0	ug/L	
Beryllium		U	1.0	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: OB-20A			San	mple ID: 1508008	-02
Metals ICPMS				_	
Cadmium		U	1.0	ug/L	
Chromium		U	2.0	ug/L	
Cobalt	1.0		1.0	ug/L	
Copper		U	1.0	ug/L	
Lead		U	1.0	ug/L	
Manganese	740		1.0	ug/L	
Nickel		U	1.0	ug/L	
Selenium		U	1.0	ug/L	
Silver		U	1.0	ug/L	
Thallium		U	1.0	ug/L	
Vanadium	1.5		1.0	ug/L	
Zinc	10		2.0	ug/L	
Mercury CVAA Mercury		U	0.20	ug/L	
Field ID: OB-06			_	mple ID: 1508008	-03
VOA-TRACE GCMS					
Dichlorodifluoromethane		U	0.50	ug/L	
Chloromethane		U	0.50	ug/L	
Vinyl Chloride		U	0.50	ug/L	
Bromomethane		U	0.50	ug/L	
Chloroethane		U	0.50	ug/L	
Trichlorofluoromethane		U	0.50	ug/L	
1,1-Dichloroethene		U	0.50	ug/L	
1,1,2-Trichloro-1,2,2-Trifluoroethane		U	0.50	ug/L	
Carbon Disulfide		U	0.50	ug/L	
Acetone		U	5.0	ug/L	
Methyl Acetate		U	0.50	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
1 ID: OB-06			San	nple ID: 150800	8-03
VOA-TRACE GCMS					
Methylene Chloride		U	0.50	ug/L	
trans-1,2-Dichloroethene		U	0.50	ug/L	
Methyl tert-Butyl Ether		U	0.50	ug/L	
1,1-Dichloroethane		U	0.50	ug/L	
cis-1,2-Dichloroethene		U	0.50	ug/L	
2-Butanone		U	5.0	ug/L	
Bromochloromethane		U	0.50	ug/L	
Chloroform		U	0.50	ug/L	
1,1,1-Trichloroethane		U	0.50	ug/L	
Cyclohexane		U	0.50	ug/L	
Carbon Tetrachloride		U	0.50	ug/L	
Benzene		U	0.50	ug/L	
1,2-Dichloroethane		U	0.50	ug/L	
Trichloroethene		U	0.50	ug/L	
1,2-Dichloropropane		U	0.50	ug/L	
Bromodichloromethane		U	0.50	ug/L	
cis-1,3-Dichloropropene		U	0.50	ug/L	
4-Methyl-2-Pentanone		U	5.0	ug/L	
Toluene		U	0.50	ug/L	
trans-1,3-Dichloropropene		U	0.50	ug/L	
1,1,2-Trichloroethane		U	0.50	ug/L	
Tetrachloroethene		U	0.50	ug/L	
Methylcyclohexane		U	0.50	ug/L	
Dibromochloromethane		U	0.50	ug/L	
1,2-Dibromoethane		U	0.50	ug/L	
2-Hexanone		U	5.0	ug/L	
Chlorobenzene		U	0.50	ug/L	
Ethylbenzene		U	0.50	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
d ID: OB-06			San	nple ID: 150800	8-03
VOA-TRACE GCMS					
m/p-Xylene		U	0.50	ug/L	
o-Xylene		U	0.50	ug/L	
Styrene		U	0.50	ug/L	
Bromoform		U	0.50	ug/L	
Isopropylbenzene		U	0.50	ug/L	
1,1,2,2-Tetrachloroethane		U	0.50	ug/L	
1,3-Dichlorobenzene		U	0.50	ug/L	
1,4-Dichlorobenzene		U	0.50	ug/L	
1,2-Dichlorobenzene		U	0.50	ug/L	
1,2-Dibromo-3-Chloropropane		U	0.50	ug/L	
1,2,4-Trichlorobenzene		U	0.50	ug/L	
1,2,3-Trichlorobenzene		U	0.50	ug/L	
NVOA GCMS					
1,4-Dioxane		U	1.9	ug/L	
N-Nitrosodimethylamine		U	4.7	ug/L	
Benzaldehyde		U	4.7	ug/L	
Phenol		U	4.7	ug/L	
Bis(2-Chloroethyl)Ether		U	4.7	ug/L	
2-Chlorophenol		U	4.7	ug/L	
2-Methylphenol		U	4.7	ug/L	
Bis(2-Chloroisopropyl)Ether		U	4.7	ug/L	
Acetophenone		U	4.7	ug/L	
4-Methylphenol		U	4.7	ug/L	
N-Nitroso-Di-N-Propylamine		U	4.7	ug/L	
Hexachloroethane		U	4.7	ug/L	
Nitrobenzene		U	4.7	ug/L	
Isophorone		U	4.7	ug/L	
2-Nitrophenol		U	4.7	ug/L	



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			Reporting		Date and Time of
Analyte	Result Q	Qualifier	Limit	Units	Analysis*

Analyte	Result	Quantitei	LIIIII	Cinto	Allalysis	
Field ID: OB-06			mple ID: 1508008-0	ID: 1508008-03		
NVOA GCMS						
2,4-Dimethylphenol		U	4.7	ug/L		
Bis(-2-Chloroethoxy)Methane		U	4.7	ug/L		
2,4-Dichlorophenol		U	4.7	ug/L		
1,2,4-Trichlorobenzene		U	4.7	ug/L		
Naphthalene		U	4.7	ug/L		
4-Chloroaniline		U	4.7	ug/L		
Hexachlorobutadiene		U	4.7	ug/L		
Caprolactam		U	4.7	ug/L		
4-Chloro-3-Methylphenol		U	4.7	ug/L		
2-Methylnaphthalene		U	4.7	ug/L		
1,2,4,5-Tetrachlorobenzene		U	4.7	ug/L		
Hexachlorocyclopentadiene		U	4.7	ug/L		
2,4,6-Trichlorophenol		U	4.7	ug/L		
2,4,5-Trichlorophenol		U	4.7	ug/L		
Biphenyl		U	4.7	ug/L		
2-Chloronaphthalene		U	4.7	ug/L		
2-Nitroaniline		U	4.7	ug/L		
Dimethyl Phthalate		U	4.7	ug/L		
Acenaphthylene		U	4.7	ug/L		
2,6-Dinitrotoluene		U	4.7	ug/L		
3-Nitroaniline		U	4.7	ug/L		
Acenaphthene		U	4.7	ug/L		
2,4-Dinitrophenol		U	24	ug/L		
4-Nitrophenol		U	4.7	ug/L		
Dibenzofuran		U	4.7	ug/L		
2,4-Dinitrotoluene		U	4.7	ug/L		
2,3,4,6-Tetrachlorophenol		U	4.7	ug/L		
Fluorene		U	4.7	ug/L		



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
d ID: OB-06			San	nple ID: 1508008	-03
NVOA GCMS			4.5	/7	
Diethylphthalate		U	4.7	ug/L	
4-Chlorophenyl-Phenylether		U	4.7	ug/L	
4-Nitroaniline		UL	4.7	ug/L	
4,6-Dinitro-2-Methylphenol		U	9.4	ug/L	
N-Nitrosodiphenylamine		UL	4.7	ug/L	
4-Bromophenyl-Phenylether		U	4.7	ug/L	
Hexachlorobenzene		U	4.7	ug/L	
Atrazine		U	4.7	ug/L	
Pentachlorophenol		U	4.7	ug/L	
Phenanthrene		U	4.7	ug/L	
Anthracene		U	4.7	ug/L	
Carbazole		UL	4.7	ug/L	
Di-N-Butyl Phthalate		U	4.7	ug/L	
Fluoranthene		U	4.7	ug/L	
Pyrene		U	4.7	ug/L	
Butylbenzylphthalate		U	4.7	ug/L	
3,3'- Dichlorobenzidine		U	4.7	ug/L	
Benzo(A)Anthracene		U	4.7	ug/L	
Chrysene		U	4.7	ug/L	
Bis(2-Ethylhexyl)Phthalate		U	4.7	ug/L	
Di-N-Octyl Phthalate		U	4.7	ug/L	
Benzo(B)Fluoranthene		U	4.7	ug/L	
Benzo(K)Fluoranthene		U	4.7	ug/L	
Benzo(A)Pyrene		U	4.7	ug/L	
Indeno(1,2,3-Cd)Pyrene		U	4.7	ug/L ug/L	
Dibenzo(A,H)Anthracene		U	4.7	ug/L ug/L	
Benzo(G,H,I)Perylene		U	4.7	ug/L ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: OB-06			San	nple ID: 150800	08-03
PCB Aroclors GC				_	
Aroclor 1016		UL	0.03	ug/L	
Aroclor 1221		UL	0.06	ug/L	
Aroclor 1232		UL	0.03	ug/L	
Aroclor 1242		UL	0.03	ug/L	
Aroclor 1248		UL	0.03	ug/L	
Aroclor 1254		UL	0.03	ug/L	
Aroclor 1260		UL	0.03	ug/L	
Aroclor 1262		UL	0.03	ug/L	
Aroclor 1268		UL	0.03	ug/L	
Metals ICP					
Calcium	24000		500	ug/L	
Iron	4300		50	ug/L	
Magnesium	5900		500	ug/L	
Potassium	1900		500	ug/L	
Sodium	16000		1000	ug/L	
Metals ICPMS				_	
Aluminum		U	20	ug/L	
Antimony		U	1.0	ug/L	
Arsenic		U	1.0	ug/L	
Barium	18		1.0	ug/L	
Beryllium		U	1.0	ug/L	
Cadmium		U	1.0	ug/L	
Chromium		U	2.0	ug/L	
Cobalt	7.6		1.0	ug/L	
Copper	3.8		1.0	ug/L	
Lead		U	1.0	ug/L	
Manganese	710		1.0	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
eld ID: OB-06			Sa	mple ID: 150800	8-03
Metals ICPMS					
Nickel	1.8		1.0	ug/L	
Selenium		U	1.0	ug/L	
Silver		U	1.0	ug/L	
Thallium		U	1.0	ug/L	
Vanadium		U	1.0	ug/L	
Zinc	3.5		2.0	ug/L	
Mercury CVAA Mercury		U	0.20	ug/L	
eld ID: RW-06			Sa	mple ID: 150800	8-04
VOA-TRACE GCMS					
Dichlorodifluoromethane		U	0.50	ug/L	
Chloromethane		U	0.50	ug/L	
Vinyl Chloride		U	0.50	ug/L	
Bromomethane		U	0.50	ug/L	
Chloroethane	3.3		0.50	ug/L	
Trichlorofluoromethane		U	0.50	ug/L	
1,1-Dichloroethene		U	0.50	ug/L	
1,1,2-Trichloro-1,2,2-Trifluoroethane		U	0.50	ug/L	
Carbon Disulfide		U	0.50	ug/L	
Acetone		U	5.0	ug/L	
Methyl Acetate		U	0.50	ug/L	
Methylene Chloride		U	0.50	ug/L	
trans-1,2-Dichloroethene		U	0.50	ug/L	
Methyl tert-Butyl Ether		U	0.50	ug/L	
1,1-Dichloroethane	0.53		0.50	ug/L	
cis-1,2-Dichloroethene		U	0.50	ug/L	
2-Butanone		U	5.0	ug/L	



Final Report

			Reporting		Date and Time of
Analyte	Result	Qualifier	Limit	Units	Analysis*

Analyte	Result	Quantito	Liiiit		Allalysis
Field ID: RW-06]		Sar		
VOA-TRACE GCMS					
Bromochloromethane		U	0.50	ug/L	
Chloroform		U	0.50	ug/L	
1,1,1-Trichloroethane		U	0.50	ug/L	
Cyclohexane		U	0.50	ug/L	
Carbon Tetrachloride		U	0.50	ug/L	
Benzene	1.2		0.50	ug/L	
1,2-Dichloroethane		U	0.50	ug/L	
Trichloroethene		U	0.50	ug/L	
1,2-Dichloropropane		U	0.50	ug/L	
Bromodichloromethane		U	0.50	ug/L	
cis-1,3-Dichloropropene		U	0.50	ug/L	
4-Methyl-2-Pentanone		U	5.0	ug/L	
Toluene		U	0.50	ug/L	
trans-1,3-Dichloropropene		U	0.50	ug/L	
1,1,2-Trichloroethane		U	0.50	ug/L	
Tetrachloroethene		U	0.50	ug/L	
Methylcyclohexane		U	0.50	ug/L	
Dibromochloromethane		U	0.50	ug/L	
1,2-Dibromoethane		U	0.50	ug/L	
2-Hexanone		U	5.0	ug/L	
Chlorobenzene		U	0.50	ug/L	
Ethylbenzene		U	0.50	ug/L	
m/p-Xylene		U	0.50	ug/L	
o-Xylene		U	0.50	ug/L	
Styrene		U	0.50	ug/L	
Bromoform		U	0.50	ug/L	
Isopropylbenzene		U	0.50	ug/L	
1,1,2,2-Tetrachloroethane		U	0.50	ug/L	



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		Reporting		Date and Time of
Analyte	Result Oualifier	Limit	Units	Analysis*

Analyte	Result	Qualifier	Limit	Onits	Analysis*
1 ID: RW-06			San	mple ID: 150800	8-04
VOA-TRACE GCMS					
1,3-Dichlorobenzene		U	0.50	ug/L	
1,4-Dichlorobenzene		U	0.50	ug/L	
1,2-Dichlorobenzene		U	0.50	ug/L	
1,2-Dibromo-3-Chloropropane		U	0.50	ug/L	
1,2,4-Trichlorobenzene		U	0.50	ug/L	
1,2,3-Trichlorobenzene		U	0.50	ug/L	
NVOA GCMS					
1,4-Dioxane		U	1.9	ug/L	
N-Nitrosodimethylamine		U	4.8	ug/L	
Benzaldehyde		U	4.8	ug/L	
Phenol		U	4.8	ug/L	
Bis(2-Chloroethyl)Ether		U	4.8	ug/L	
2-Chlorophenol		U	4.8	ug/L	
2-Methylphenol		U	4.8	ug/L	
Bis(2-Chloroisopropyl)Ether		U	4.8	ug/L	
Acetophenone		U	4.8	ug/L	
4-Methylphenol		U	4.8	ug/L	
N-Nitroso-Di-N-Propylamine		U	4.8	ug/L	
Hexachloroethane		U	4.8	ug/L	
Nitrobenzene		U	4.8	ug/L	
Isophorone		U	4.8	ug/L	
2-Nitrophenol		U	4.8	ug/L	
2,4-Dimethylphenol		U	4.8	ug/L	
Bis(-2-Chloroethoxy)Methane		U	4.8	ug/L	
2,4-Dichlorophenol		U	4.8	ug/L	
1,2,4-Trichlorobenzene		U	4.8	ug/L	
Naphthalene		U	4.8	ug/L	
4-Chloroaniline		U	4.8	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: RW-06			Sam	nple ID: 1508008-04	ŀ
NVOA GCMS					
Hexachlorobutadiene		U	4.8	ug/L	
Caprolactam		U	4.8	ug/L	
4-Chloro-3-Methylphenol		U	4.8	ug/L	
2-Methylnaphthalene		U	4.8	ug/L	
1,2,4,5-Tetrachlorobenzene		U	4.8	ug/L	
Hexachlorocyclopentadiene		U	4.8	ug/L	
2,4,6-Trichlorophenol		U	4.8	ug/L	
2,4,5-Trichlorophenol		U	4.8	ug/L	
Biphenyl		U	4.8	ug/L	
2-Chloronaphthalene		U	4.8	ug/L	
2-Nitroaniline		U	4.8	ug/L	
Dimethyl Phthalate		U	4.8	ug/L	
Acenaphthylene		U	4.8	ug/L	
2,6-Dinitrotoluene		U	4.8	ug/L	
3-Nitroaniline		U	4.8	ug/L	
Acenaphthene		U	4.8	ug/L	
2,4-Dinitrophenol		U	24	ug/L	
4-Nitrophenol		U	4.8	ug/L	
Dibenzofuran		U	4.8	ug/L	
2,4-Dinitrotoluene		U	4.8	ug/L	
2,3,4,6-Tetrachlorophenol		U	4.8	ug/L	
Fluorene		U	4.8	ug/L	
Diethylphthalate		U	4.8	ug/L	
4-Chlorophenyl-Phenylether		U	4.8	ug/L	
4-Nitroaniline		UL	4.8	ug/L	
4,6-Dinitro-2-Methylphenol		U	9.6	ug/L	
N-Nitrosodiphenylamine		UL	4.8	ug/L	
4-Bromophenyl-Phenylether		U	4.8	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
d ID: RW-06			San	nple ID: 150800	8-04
NVOA GCMS					
Hexachlorobenzene		U	4.8	ug/L	
Atrazine		U	4.8	ug/L	
Pentachlorophenol		U	4.8	ug/L	
Phenanthrene		U	4.8	ug/L	
Anthracene		U	4.8	ug/L	
Carbazole		UL	4.8	ug/L	
Di-N-Butyl Phthalate		U	4.8	ug/L	
Fluoranthene		U	4.8	ug/L	
Pyrene		U	4.8	ug/L	
Butylbenzylphthalate		U	4.8	ug/L	
3,3'- Dichlorobenzidine		U	4.8	ug/L	
Benzo(A)Anthracene		U	4.8	ug/L	
Chrysene		U	4.8	ug/L	
Bis(2-Ethylhexyl)Phthalate		U	4.8	ug/L	
Di-N-Octyl Phthalate		U	4.8	ug/L	
Benzo(B)Fluoranthene		U	4.8	ug/L	
Benzo(K)Fluoranthene		U	4.8	ug/L	
Benzo(A)Pyrene		U	4.8	ug/L	
Indeno(1,2,3-Cd)Pyrene		U	4.8	ug/L	
Dibenzo(A,H)Anthracene		U	4.8	ug/L	
Benzo(G,H,I)Perylene		U	4.8	ug/L	
Cyclohexanamine, N-cyclohexyl-	16	NJ		ug/L	
PCB Aroclors GC				_	
Aroclor 1016		UL	0.03	ug/L	
Aroclor 1221		UL	0.06	ug/L	
Aroclor 1232		UL	0.03	ug/L	
Aroclor 1242		UL	0.03	ug/L	
Aroclor 1248		UL	0.03	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
ield ID: RW-06			Sar	mple ID: 150800	8-04
PCB Aroclors GC					
Aroclor 1254		UL	0.03	ug/L	
Aroclor 1260		UL	0.03	ug/L	
Aroclor 1262		UL	0.03	ug/L	
Aroclor 1268		UL	0.03	ug/L	
Metals ICP					
Calcium	74000		500	ug/L	
Iron	36000		50	ug/L	
Magnesium	13000		500	ug/L	
Manganese	6200		5.0	ug/L	
Potassium	2900		500	ug/L	
Sodium	6200		1000	ug/L	
Metals ICPMS					
Aluminum	22		20	ug/L	
Antimony		U	1.0	ug/L	
Arsenic		U	1.0	ug/L	
Barium	380		1.0	ug/L	
Beryllium		U	1.0	ug/L	
Cadmium		U	1.0	ug/L	
Chromium	3.5		2.0	ug/L	
Cobalt	1.2		1.0	ug/L	
Copper	1.0		1.0	ug/L	
Lead		U	1.0	ug/L	
Nickel		U	1.0	ug/L	
Selenium		U	1.0	ug/L	
Silver		U	1.0	ug/L	
Thallium		U	1.0	ug/L	
Vanadium	1.3		1.0	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
ield ID: RW-06			Sam	nple ID: 1508008-0)4
Metals ICPMS					
Zinc	12		2.0	ug/L	
Mercury CVAA					
Mercury		U	0.20	ug/L	
Field ID: RW-6A			Sam	nple ID: 1508008-0	05
VOA-TRACE GCMS					
Dichlorodifluoromethane		U	0.50	ug/L	
Chloromethane		U	0.50	ug/L	
Vinyl Chloride		U	0.50	ug/L	
Bromomethane		U	0.50	ug/L	
Chloroethane	2.2		0.50	ug/L	
Trichlorofluoromethane		U	0.50	ug/L	
1,1-Dichloroethene		U	0.50	ug/L	
1,1,2-Trichloro-1,2,2-Trifluoroethane		U	0.50	ug/L	
Carbon Disulfide		U	0.50	ug/L	
Acetone		U	5.0	ug/L	
Methyl Acetate		U	0.50	ug/L	
Methylene Chloride		U	0.50	ug/L	
trans-1,2-Dichloroethene		U	0.50	ug/L	
Methyl tert-Butyl Ether		U	0.50	ug/L	
1,1-Dichloroethane		U	0.50	ug/L	
cis-1,2-Dichloroethene		U	0.50	ug/L	
2-Butanone		U	5.0	ug/L	
Bromochloromethane		U	0.50	ug/L	
Chloroform		U	0.50	ug/L	
1,1,1-Trichloroethane		U	0.50	ug/L	
Cyclohexane	3.9		0.50	ug/L	
Carbon Tetrachloride		U	0.50	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
eld ID: RW-6A			San	nple ID: 150800	08-05
VOA-TRACE GCMS					
Benzene	8.5		0.50	ug/L	
1,2-Dichloroethane		U	0.50	ug/L	
Trichloroethene		U	0.50	ug/L	
1,2-Dichloropropane		U	0.50	ug/L	
Bromodichloromethane		U	0.50	ug/L	
cis-1,3-Dichloropropene		U	0.50	ug/L	
4-Methyl-2-Pentanone		U	5.0	ug/L	
Toluene		U	0.50	ug/L	
trans-1,3-Dichloropropene		U	0.50	ug/L	
1,1,2-Trichloroethane		U	0.50	ug/L	
Tetrachloroethene		U	0.50	ug/L	
Methylcyclohexane	1.1		0.50	ug/L	
Dibromochloromethane		U	0.50	ug/L	
1,2-Dibromoethane		U	0.50	ug/L	
2-Hexanone		U	5.0	ug/L	
Chlorobenzene		U	0.50	ug/L	
Ethylbenzene		U	0.50	ug/L	
m/p-Xylene	15		0.50	ug/L	
o-Xylene		U	0.50	ug/L	
Styrene		U	0.50	ug/L	
Bromoform		U	0.50	ug/L	
Isopropylbenzene	6.6		0.50	ug/L	
1,1,2,2-Tetrachloroethane		U	0.50	ug/L	
1,3-Dichlorobenzene		U	0.50	ug/L	
1,4-Dichlorobenzene		U	0.50	ug/L	
1,2-Dichlorobenzene		U	0.50	ug/L	
1,2-Dibromo-3-Chloropropane		U	0.50	ug/L	
1,2,4-Trichlorobenzene		U	0.50	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time o Analysis*		
ID: RW-6A		Sample ID: 1508008-05					
OA-TRACE GCMS		• •	0.50	Œ			
1,2,3-Trichlorobenzene		U	0.50	ug/L			
Benzene, 1,2,3-trimethyl-	15	NJ		ug/L			
Benzene, 1,2,4,5-tetramethyl-	8.2	NJ		ug/L			
Benzene, 1,3,5-trimethyl-	4.0	NJ		ug/L			
Benzene, 1-methyl-2-(1-meth	12	NJ		ug/L			
Benzene, 2-ethyl-1,3-dimethyl-	4.0	NJ		ug/L			
Benzene, propyl-	7.0	NJ		ug/L			
Cyclopentane, methyl-	12	NJ		ug/L			
Indan, 1-methyl-	5.9	NJ		ug/L			
Indane	12	NJ		ug/L			
Pentane, 3-methyl-	4.2	NJ		ug/L			
IVOA GCMS							
1,4-Dioxane		U	1.9	ug/L			
N-Nitrosodimethylamine		U	4.7	ug/L			
Benzaldehyde		U	4.7	ug/L			
Phenol		U	4.7	ug/L			
Bis(2-Chloroethyl)Ether		U	4.7	ug/L			
2-Chlorophenol		U	4.7	ug/L			
2-Methylphenol		U	4.7	ug/L			
Bis(2-Chloroisopropyl)Ether		U	4.7	ug/L			
Acetophenone		U	4.7	ug/L			
4-Methylphenol		U	4.7	ug/L			
N-Nitroso-Di-N-Propylamine		U	4.7	ug/L			
Hexachloroethane		U	4.7	ug/L			
Nitrobenzene		U	4.7	ug/L			
Isophorone		U	4.7	ug/L			
2-Nitrophenol		U	4.7	ug/L			



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
I ID: RW-6A			Sam	nple ID: 1508008	-05
NVOA GCMS					
2,4-Dimethylphenol		U	4.7	ug/L	
Bis(-2-Chloroethoxy)Methane		U	4.7	ug/L	
2,4-Dichlorophenol		U	4.7	ug/L	
1,2,4-Trichlorobenzene		U	4.7	ug/L	
Naphthalene	7.9		4.7	ug/L	
4-Chloroaniline		U	4.7	ug/L	
Hexachlorobutadiene		U	4.7	ug/L	
Caprolactam		U	4.7	ug/L	
4-Chloro-3-Methylphenol		U	4.7	ug/L	
2-Methylnaphthalene		U	4.7	ug/L	
1,2,4,5-Tetrachlorobenzene		U	4.7	ug/L	
Hexachlorocyclopentadiene		U	4.7	ug/L	
2,4,6-Trichlorophenol		U	4.7	ug/L	
2,4,5-Trichlorophenol		U	4.7	ug/L	
Biphenyl		U	4.7	ug/L	
2-Chloronaphthalene		U	4.7	ug/L	
2-Nitroaniline		U	4.7	ug/L	
Dimethyl Phthalate		U	4.7	ug/L	
Acenaphthylene		U	4.7	ug/L	
2,6-Dinitrotoluene		U	4.7	ug/L	
3-Nitroaniline		U	4.7	ug/L	
Acenaphthene		U	4.7	ug/L	
2,4-Dinitrophenol		U	24	ug/L	
4-Nitrophenol		U	4.7	ug/L	
Dibenzofuran		U	4.7	ug/L	
2,4-Dinitrotoluene		U	4.7	ug/L	
2,3,4,6-Tetrachlorophenol		U	4.7	ug/L	
Fluorene		U	4.7	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
ield ID: RW-6A			Sa	mple ID: 150800	08-05
NVOA GCMS		•	4.5	/=	
Diethylphthalate		U	4.7	ug/L	
4-Chlorophenyl-Phenylether		U	4.7	ug/L	
4-Nitroaniline		UL	4.7	ug/L	
4,6-Dinitro-2-Methylphenol		U	9.4	ug/L	
N-Nitrosodiphenylamine		UL	4.7	ug/L	
4-Bromophenyl-Phenylether		U	4.7	ug/L	
Hexachlorobenzene		U	4.7	ug/L	
Atrazine		U	4.7	ug/L	
Pentachlorophenol		U	4.7	ug/L	
Phenanthrene		U	4.7	ug/L	
Anthracene		U	4.7	ug/L	
Carbazole		UL	4.7	ug/L	
Di-N-Butyl Phthalate		U	4.7	ug/L	
Fluoranthene		U	4.7	ug/L	
Pyrene		U	4.7	ug/L	
Butylbenzylphthalate		U	4.7	ug/L	
3,3'- Dichlorobenzidine		U	4.7	ug/L	
Benzo(A)Anthracene		U	4.7	ug/L	
Chrysene		U	4.7	ug/L	
Bis(2-Ethylhexyl)Phthalate		U	4.7	ug/L	
Di-N-Octyl Phthalate		U	4.7	ug/L	
Benzo(B)Fluoranthene		U	4.7	ug/L	
Benzo(K)Fluoranthene		U	4.7	ug/L	
Benzo(A)Pyrene		U	4.7	ug/L	
Indeno(1,2,3-Cd)Pyrene		U	4.7	ug/L	
Dibenzo(A,H)Anthracene		U	4.7	ug/L	
Benzo(G,H,I)Perylene		U	4.7	ug/L	
2(3H)-Benzothiazolone	9.0	NJ		ug/L	



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Project: Ringwood Mines - 1508008 Project Number: 1508008

Reporting

Analyte	Result	Qualifier	Limit	Units	Analysis*
d ID: RW-6A			Sar	mple ID: 150800	8-05
NVOA GCMS					
Benzene, 1,2,3,5-tetramethyl-	10	NJ		ug/L	
Benzene, 1,2,3-trimethyl-	17	NJ		ug/L	
Benzene, 1-ethyl-2,3-dimethyl-	13	NJ		ug/L	
Benzenesulfonamide, N-cyclo	9.6	NJ		ug/L	
Cyclohexanamine, N-cyclohexyl-	14	NJ		ug/L	
Indane	13	NJ		ug/L	
Phenol, 4,4'-(1-methylethyl	18	NJ		ug/L	
PCB Aroclors GC Aroclor 1016		U	0.03	a/I	
Aroclor 1016 Aroclor 1221		U	0.03	ug/L	
				ug/L	
Aroclor 1232		U	0.03	ug/L	
Aroclor 1242		UL	0.03	ug/L	
Aroclor 1248		U	0.03	ug/L	
Aroclor 1254		U	0.03	ug/L	
Aroclor 1260		U	0.03	ug/L	
Aroclor 1262		U	0.03	ug/L	
Aroclor 1268		U	0.03	ug/L	
Metals ICP					
Calcium	87000		500	ug/L	
Iron	23000		50	ug/L	
Magnesium	20000		500	ug/L	
Manganese	14000		5.0	ug/L	
Potassium	3000		500	ug/L	
Sodium	7600		1000	ug/L	

Date and Time of



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Project: Ringwood Mines - 1508008

	Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID:	RW-6A			Sar	mple ID: 1508008-0	5
Meta	ls ICPMS			•		
	Aluminum		U	20	ug/L	
	Antimony		U	1.0	ug/L	
	Arsenic		U	1.0	ug/L	
	Barium	43		1.0	ug/L	
	Beryllium		U	1.0	ug/L	
	Cadmium		U	1.0	ug/L	
	Chromium		U	2.0	ug/L	
	Cobalt	19		1.0	ug/L	
	Copper	1.4		1.0	ug/L	
	Lead		U	1.0	ug/L	
	Nickel	2.9		1.0	ug/L	
	Selenium		U	1.0	ug/L	
	Silver		U	1.0	ug/L	
	Thallium		U	1.0	ug/L	
	Vanadium	2.3		1.0	ug/L	
	Zinc	22		2.0	ug/L	
Merc	ury CVAA Mercury		U	0.20	ug/L	
Field ID:	SC-01			Sar	mple ID: 1508008-0	6
VOA	-TRACE GCMS				_	
	Dichlorodifluoromethane		U	0.50	ug/L	
	Chloromethane		U	0.50	ug/L	
	Vinyl Chloride		U	0.50	ug/L	
	Bromomethane		U	0.50	ug/L	
	Chloroethane	0.80		0.50	ug/L	
	Trichlorofluoromethane		U	0.50	ug/L	
	1,1-Dichloroethene		U	0.50	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
eld ID: SC-01			San	mple ID: 1508008-06	
VOA-TRACE GCMS					
1,1,2-Trichloro-1,2,2-Trifluoroethane		U	0.50	ug/L	
Carbon Disulfide		U	0.50	ug/L	
Acetone		U	5.0	ug/L	
Methyl Acetate		U	0.50	ug/L	
Methylene Chloride		U	0.50	ug/L	
trans-1,2-Dichloroethene		U	0.50	ug/L	
Methyl tert-Butyl Ether		U	0.50	ug/L	
1,1-Dichloroethane		U	0.50	ug/L	
cis-1,2-Dichloroethene		U	0.50	ug/L	
2-Butanone		U	5.0	ug/L	
Bromochloromethane		U	0.50	ug/L	
Chloroform		U	0.50	ug/L	
1,1,1-Trichloroethane		U	0.50	ug/L	
Cyclohexane	1.9		0.50	ug/L	
Carbon Tetrachloride		U	0.50	ug/L	
Benzene	1.5		0.50	ug/L	
1,2-Dichloroethane		U	0.50	ug/L	
Trichloroethene		U	0.50	ug/L	
1,2-Dichloropropane		U	0.50	ug/L	
Bromodichloromethane		U	0.50	ug/L	
cis-1,3-Dichloropropene		U	0.50	ug/L	
4-Methyl-2-Pentanone		U	5.0	ug/L	
Toluene	0.60		0.50	ug/L	
trans-1,3-Dichloropropene		U	0.50	ug/L	
1,1,2-Trichloroethane		U	0.50	ug/L	
Tetrachloroethene		U	0.50	ug/L	
Methylcyclohexane	1.8		0.50	ug/L	
Dibromochloromethane		U	0.50	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: SC-01			San	nple ID: 1508008-0	6
VOA-TRACE GCMS					
1,2-Dibromoethane		U	0.50	ug/L	
2-Hexanone		U	5.0	ug/L	
Chlorobenzene		U	0.50	ug/L	
Ethylbenzene	2.3		0.50	ug/L	
m/p-Xylene	58		0.50	ug/L	
o-Xylene	5.4		0.50	ug/L	
Styrene		U	0.50	ug/L	
Bromoform		U	0.50	ug/L	
Isopropylbenzene	2.2		0.50	ug/L	
1,1,2,2-Tetrachloroethane		U	0.50	ug/L	
1,3-Dichlorobenzene		U	0.50	ug/L	
1,4-Dichlorobenzene		U	0.50	ug/L	
1,2-Dichlorobenzene		U	0.50	ug/L	
1,2-Dibromo-3-Chloropropane		U	0.50	ug/L	
1,2,4-Trichlorobenzene		U	0.50	ug/L	
1,2,3-Trichlorobenzene		U	0.50	ug/L	
1H-Indene, 2,3-dihydro-4-me	2.3	NJ		ug/L	
Benzene, 1,2,3,4-tetramethyl-	3.0	NJ		ug/L	
Benzene, 1,2,3,5-tetramethyl-	1.9	NJ		ug/L	
Benzene, 1,2,3-trimethyl- (01)	6.2	NJ		ug/L	
Benzene, 1,2,4,5-tetramethyl-	4.3	NJ		ug/L	
Benzene, 1,3,5-trimethyl-	1.5	NJ		ug/L	
Benzene, 1-methyl-2-(1-meth	4.8	NJ		ug/L	
Cyclopentane, methyl-	3.5	NJ		ug/L	
Indane	2.5	NJ		ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
d ID: SC-01			San	nple ID: 150800	08-06
NVOA GCMS					
1,4-Dioxane		U	1.9	ug/L	
N-Nitrosodimethylamine		U	4.7	ug/L	
Benzaldehyde		U	4.7	ug/L	
Phenol		U	4.7	ug/L	
Bis(2-Chloroethyl)Ether		U	4.7	ug/L	
2-Chlorophenol		U	4.7	ug/L	
2-Methylphenol		U	4.7	ug/L	
Bis(2-Chloroisopropyl)Ether		U	4.7	ug/L	
Acetophenone		U	4.7	ug/L	
4-Methylphenol		U	4.7	ug/L	
N-Nitroso-Di-N-Propylamine		U	4.7	ug/L	
Hexachloroethane		U	4.7	ug/L	
Nitrobenzene		U	4.7	ug/L	
Isophorone		U	4.7	ug/L	
2-Nitrophenol		U	4.7	ug/L	
2,4-Dimethylphenol		U	4.7	ug/L	
Bis(-2-Chloroethoxy)Methane		U	4.7	ug/L	
2,4-Dichlorophenol		U	4.7	ug/L	
1,2,4-Trichlorobenzene		U	4.7	ug/L	
Naphthalene		U	4.7	ug/L	
4-Chloroaniline		U	4.7	ug/L	
Hexachlorobutadiene		U	4.7	ug/L	
Caprolactam		U	4.7	ug/L	
4-Chloro-3-Methylphenol		U	4.7	ug/L	
2-Methylnaphthalene		U	4.7	ug/L	
1,2,4,5-Tetrachlorobenzene		U	4.7	ug/L	
Hexachlorocyclopentadiene		U	4.7	ug/L	
2,4,6-Trichlorophenol		U	4.7	ug/L	



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Project: Ringwood Mines - 1508008

Ana	lyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: SC-01				San	nple ID: 1508008-06)
NVOA GC					_	
	-Trichlorophenol		U	4.7	ug/L	
Bipho			U	4.7	ug/L	
	loronaphthalene		U	4.7	ug/L	
	troaniline		U	4.7	ug/L	
	ethyl Phthalate		U	4.7	ug/L	
	naphthylene		U	4.7	ug/L	
	Dinitrotoluene		U	4.7	ug/L	
	troaniline		U	4.7	ug/L	
	aphthene		U	4.7	ug/L	
2,4-□	Dinitrophenol		U	24	ug/L	
4-Nit	trophenol		U	4.7	ug/L	
Dibe	nzofuran		U	4.7	ug/L	
2,4-D	Dinitrotoluene		U	4.7	ug/L	
2,3,4	,6-Tetrachlorophenol		U	4.7	ug/L	
Fluor	rene		U	4.7	ug/L	
Dieth	nylphthalate		U	4.7	ug/L	
4-Ch	lorophenyl-Phenylether		U	4.7	ug/L	
4-Nit	troaniline		UL	4.7	ug/L	
4,6-D	Dinitro-2-Methylphenol		U	9.4	ug/L	
N-Ni	trosodiphenylamine		UL	4.7	ug/L	
4-Bro	omophenyl-Phenylether		U	4.7	ug/L	
Hexa	achlorobenzene		U	4.7	ug/L	
Atraz	zine		U	4.7	ug/L	
Penta	achlorophenol		U	4.7	ug/L	
Phen	anthrene		U	4.7	ug/L	
Anth	racene		U	4.7	ug/L	
Carba	azole		UL	4.7	ug/L	
Di-N	-Butyl Phthalate		U	4.7	ug/L	



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	Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID:	SC-01			Sar	mple ID: 1508008-06	
NVO	A GCMS		**	4.7	/T	
	Fluoranthene		U	4.7	ug/L	
	Pyrene		U	4.7	ug/L	
	Butylbenzylphthalate		U	4.7	ug/L	
	3,3'- Dichlorobenzidine		U	4.7	ug/L	
	Benzo(A)Anthracene		U	4.7	ug/L	
	Chrysene		U	4.7	ug/L	
	Bis(2-Ethylhexyl)Phthalate		U	4.7	ug/L	
	Di-N-Octyl Phthalate		U	4.7	ug/L	
	Benzo(B)Fluoranthene		U	4.7	ug/L	
	Benzo(K)Fluoranthene		U	4.7	ug/L	
	Benzo(A)Pyrene		U	4.7	ug/L	
	Indeno(1,2,3-Cd)Pyrene		U	4.7	ug/L	
	Dibenzo(A,H)Anthracene		U	4.7	ug/L	
	Benzo(G,H,I)Perylene		U	4.7	ug/L	
	2(3H)-Benzothiazolone	10	NJ		ug/L	
	Benzenesulfonamide, N-cyclo	10	NJ		ug/L	
	Cyclohexanamine, N-cyclohexyl-	15	NJ		ug/L	
	o-Xylene	29	NJ		ug/L	
PCB.	Aroclors GC					
	Aroclor 1016		UL	0.03	ug/L	
	Aroclor 1221		UL	0.06	ug/L	
	Aroclor 1232		UL	0.03	ug/L	
	Aroclor 1242		UL	0.03	ug/L	
	Aroclor 1248		UL	0.03	ug/L	
	Aroclor 1254		UL	0.03	ug/L	
	Aroclor 1260		UL	0.03	ug/L	
	Aroclor 1262		UL	0.03	ug/L	
	Aroclor 1268		UL	0.03	ug/L	



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		Reporting	Date and Time of
Analyte	Result Qualifier	Limit Units	Analysis*

Analyte	Result Qu	alliler Lim	ut Units	Analysis*
Field ID: SC-01			Sample ID: 150800	08-06
Metals ICP				
Calcium	40000	500	ug/L	
Iron	74000	50	ug/L	
Magnesium	4000	500	ug/L	
Potassium	2400	500	ug/L	
Sodium	3500	100	ug/L	
Metals ICPMS				
Aluminum	57	20	ug/L	
Antimony		U 1.0	ug/L	
Arsenic		U 1.0	ug/L	
Barium	400	1.0	ug/L	
Beryllium		U 1.0	ug/L	
Cadmium		U 1.0	ug/L	
Chromium	3.6	2.0	ug/L	
Cobalt	3.4	1.0	ug/L	
Copper		U 1.0	ug/L	
Lead	13	1.0	ug/L	
Manganese	690	1.0	ug/L	
Nickel	13	1.0	ug/L	
Selenium		U 1.0	ug/L	
Silver		U 1.0	ug/L	
Thallium		U 1.0	ug/L	
Vanadium	2.5	1.0	ug/L	
Zinc	35	2.0	ug/L	



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
ield ID: SC-01			Sar	mple ID: 150800	08-06
Mercury CVAA Mercury		U	0.20	ug/L	
ield ID: SC-11			Sar	mple ID: 150800	08-07
VOA-TRACE GCMS Dichlorodifluoromethane		U	0.50	ug/L	
Chloromethane		U	0.50	ug/L	
Vinyl Chloride		U	0.50	ug/L	
Bromomethane		U	0.50	ug/L	
Chloroethane	0.82		0.50	ug/L	
Trichlorofluoromethane		U	0.50	ug/L	
1,1-Dichloroethene		U	0.50	ug/L	
1,1,2-Trichloro-1,2,2-Trifluoroethane		U	0.50	ug/L	
Carbon Disulfide		U	0.50	ug/L	
Acetone	5.1		5.0	ug/L	
Methyl Acetate		U	0.50	ug/L	
Methylene Chloride		U	0.50	ug/L	
trans-1,2-Dichloroethene		U	0.50	ug/L	
Methyl tert-Butyl Ether		U	0.50	ug/L	
1,1-Dichloroethane		U	0.50	ug/L	
cis-1,2-Dichloroethene		U	0.50	ug/L	
2-Butanone		U	5.0	ug/L	
Bromochloromethane		U	0.50	ug/L	
Chloroform		U	0.50	ug/L	
1,1,1-Trichloroethane		U	0.50	ug/L	
Cyclohexane	1.8		0.50	ug/L	
Carbon Tetrachloride		U	0.50	ug/L	
Benzene	1.4		0.50	ug/L	
1,2-Dichloroethane		U	0.50	ug/L	



Final Report

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
 CC 11			Com	mla ID: 1500	0000 07

Analyte	Result	Quanner	Limit	Omts	Analysis*
Field ID: SC-11			San	mple ID: 1508008	-07
VOA-TRACE GCMS					
Trichloroethene		U	0.50	ug/L	
1,2-Dichloropropane		U	0.50	ug/L	
Bromodichloromethane		U	0.50	ug/L	
cis-1,3-Dichloropropene		U	0.50	ug/L	
4-Methyl-2-Pentanone		U	5.0	ug/L	
Toluene	0.61		0.50	ug/L	
trans-1,3-Dichloropropene		U	0.50	ug/L	
1,1,2-Trichloroethane		U	0.50	ug/L	
Tetrachloroethene		U	0.50	ug/L	
Methylcyclohexane	1.7		0.50	ug/L	
Dibromochloromethane		U	0.50	ug/L	
1,2-Dibromoethane		U	0.50	ug/L	
2-Hexanone		U	5.0	ug/L	
Chlorobenzene		U	0.50	ug/L	
Ethylbenzene	2.2		0.50	ug/L	
m/p-Xylene	55		0.50	ug/L	
o-Xylene	5.2		0.50	ug/L	
Styrene		U	0.50	ug/L	
Bromoform		U	0.50	ug/L	
Isopropylbenzene	2.1		0.50	ug/L	
1,1,2,2-Tetrachloroethane		U	0.50	ug/L	
1,3-Dichlorobenzene		U	0.50	ug/L	
1,4-Dichlorobenzene		U	0.50	ug/L	
1,2-Dichlorobenzene		U	0.50	ug/L	
1,2-Dibromo-3-Chloropropane		U	0.50	ug/L	
1,2,4-Trichlorobenzene		U	0.50	ug/L	
1,2,3-Trichlorobenzene		U	0.50	ug/L	
1H-Indene, 2,3-dihydro-5-me	2.0	NJ		ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID: SC-11			Sample ID: 1508008-		3-07
VOA-TRACE GCMS					
Benzene, 1,2,3,4-tetramethyl-	3.8	NJ		ug/L	
Benzene, 1,2,3-trimethyl- (02)	3.6	NJ		ug/L	
Benzene, 1,2,4,5-tetramethyl-	2.7	NJ		ug/L	
Benzene, 1,2,4-trimethyl-	5.8	NJ		ug/L	
Benzene, 1-methyl-2-(1-meth	4.2	NJ		ug/L	
Benzene, 1-methyl-3-(1-meth	1.8	NJ		ug/L	
Cyclopentane, methyl-	3.3	NJ		ug/L	
NVOA GCMS					
1,4-Dioxane		U	1.9	ug/L	
N-Nitrosodimethylamine		U	4.8	ug/L	
Benzaldehyde		U	4.8	ug/L	
Phenol		U	4.8	ug/L	
Bis(2-Chloroethyl)Ether		U	4.8	ug/L	
2-Chlorophenol		U	4.8	ug/L	
2-Methylphenol		U	4.8	ug/L	
Bis(2-Chloroisopropyl)Ether		U	4.8	ug/L	
Acetophenone		U	4.8	ug/L	
4-Methylphenol		U	4.8	ug/L	
N-Nitroso-Di-N-Propylamine		U	4.8	ug/L	
Hexachloroethane		U	4.8	ug/L	
Nitrobenzene		U	4.8	ug/L	
Isophorone		U	4.8	ug/L	
2-Nitrophenol		U	4.8	ug/L	
2,4-Dimethylphenol		U	4.8	ug/L	
Bis(-2-Chloroethoxy)Methane		U	4.8	ug/L	
2,4-Dichlorophenol		U	4.8	ug/L	
1,2,4-Trichlorobenzene		U	4.8	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
d ID: SC-11			San	nple ID: 150800	8-07
NVOA GCMS					
Naphthalene	5.9		4.8	ug/L	
4-Chloroaniline		U	4.8	ug/L	
Hexachlorobutadiene		U	4.8	ug/L	
Caprolactam		U	4.8	ug/L	
4-Chloro-3-Methylphenol		U	4.8	ug/L	
2-Methylnaphthalene		U	4.8	ug/L	
1,2,4,5-Tetrachlorobenzene		U	4.8	ug/L	
Hexachlorocyclopentadiene		U	4.8	ug/L	
2,4,6-Trichlorophenol		U	4.8	ug/L	
2,4,5-Trichlorophenol		U	4.8	ug/L	
Biphenyl		U	4.8	ug/L	
2-Chloronaphthalene		U	4.8	ug/L	
2-Nitroaniline		U	4.8	ug/L	
Dimethyl Phthalate		U	4.8	ug/L	
Acenaphthylene		U	4.8	ug/L	
2,6-Dinitrotoluene		U	4.8	ug/L	
3-Nitroaniline		U	4.8	ug/L	
Acenaphthene		U	4.8	ug/L	
2,4-Dinitrophenol		U	24	ug/L	
4-Nitrophenol		U	4.8	ug/L	
Dibenzofuran		U	4.8	ug/L	
2,4-Dinitrotoluene		U	4.8	ug/L	
2,3,4,6-Tetrachlorophenol		U	4.8	ug/L	
Fluorene		U	4.8	ug/L	
Diethylphthalate		U	4.8	ug/L	
4-Chlorophenyl-Phenylether		U	4.8	ug/L	
4-Nitroaniline		UL	4.8	ug/L	
4,6-Dinitro-2-Methylphenol		U	9.5	ug/L	



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Project: Ringwood Mines - 1508008

	Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID:	SC-11			San	nple ID: 150800	08-07
NVC	DA GCMS					
	N-Nitrosodiphenylamine		UL	4.8	ug/L	
	4-Bromophenyl-Phenylether		U	4.8	ug/L	
	Hexachlorobenzene		U	4.8	ug/L	
	Atrazine		U	4.8	ug/L	
	Pentachlorophenol		U	4.8	ug/L	
	Phenanthrene		U	4.8	ug/L	
	Anthracene		U	4.8	ug/L	
	Carbazole		UL	4.8	ug/L	
	Di-N-Butyl Phthalate		U	4.8	ug/L	
	Fluoranthene		U	4.8	ug/L	
	Pyrene		U	4.8	ug/L	
	Butylbenzylphthalate		U	4.8	ug/L	
	3,3'- Dichlorobenzidine		U	4.8	ug/L	
	Benzo(A)Anthracene		U	4.8	ug/L	
	Chrysene		U	4.8	ug/L	
	Bis(2-Ethylhexyl)Phthalate		U	4.8	ug/L	
	Di-N-Octyl Phthalate		U	4.8	ug/L	
	Benzo(B)Fluoranthene		U	4.8	ug/L	
	Benzo(K)Fluoranthene		U	4.8	ug/L	
	Benzo(A)Pyrene		U	4.8	ug/L	
	Indeno(1,2,3-Cd)Pyrene		U	4.8	ug/L	
	Dibenzo(A,H)Anthracene		U	4.8	ug/L	
	Benzo(G,H,I)Perylene		U	4.8	ug/L	
	2(3H)-Benzothiazolone	11	NJ		ug/L	
	Benzenesulfonamide, N-cyclo	13	NJ		ug/L	
	p-Xylene	37	NJ		ug/L	



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	I	Reporting	Date and Time of
Analyte	Result Qualifier	Limit Units	Analysis*

Analyte	Res	ult Qual	ifier Li	mit Units	Analysis*
ield ID: SC-11				Sample ID: 1	508008-07
PCB Aroclors GC		-		22 /7	
Aroclor 1016			J L 0.0	·	
Aroclor 1221			JL 0.0	·	
Aroclor 1232			L 0.0	·	
Aroclor 1242			J L 0.0	_	
Aroclor 1248			J L 0.0	_	
Aroclor 1254			J L 0.0	· ·	
Aroclor 1260			J L 0.0	_	
Aroclor 1262			J L 0.0	·	
Aroclor 1268		· U	J L 0.0	03 ug/L	
Metals ICP					
Calcium	410		50	00 ug/L	
Iron	740	00	50	0 ug/L	,
Magnesium	410	00	50	00 ug/L	,
Potassium	240	00	50	00 ug/L	,
Sodium	350	00	100	00 ug/L	4
Metals ICPMS					
Aluminum	55	;	20	0 ug/L	ı
Antimony			U 1.	0 ug/L	,
Arsenic			U 1.	0 ug/L	,
Barium	40	0	1.	0 ug/L	,
Beryllium			U 1.	0 ug/L	4
Cadmium			U 1.	0 ug/L	,
Chromium	3.0	5	2.	0 ug/L	
Cobalt	3.3	3	1.	0 ug/L	
Copper			U 1.	0 ug/L	,
Lead	13	į	1.	0 ug/L	4
Manganese	68	0	1.	0 ug/L	4



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*			
Field ID: SC-11		Sample ID: 1508008-07						
Metals ICPMS								
Nickel	12		1.0	ug/L				
Selenium		U	1.0	ug/L				
Silver		U	1.0	ug/L				
Thallium		U	1.0	ug/L				
Vanadium	2.4		1.0	ug/L				
Zinc	32		2.0	ug/L				
Mercury CVAA Mercury		U	0.20	ug/L				
ield ID: TB-01			Sa	mple ID: 1508008	-08			
VOA-TRACE GCMS								
Dichlorodifluoromethane		U	0.50	ug/L				
Chloromethane		U	0.50	ug/L				
Vinyl Chloride		U	0.50	ug/L				
Bromomethane		U	0.50	ug/L				
Chloroethane		U	0.50	ug/L				
Trichlorofluoromethane		U	0.50	ug/L				
1,1-Dichloroethene		U	0.50	ug/L				
1,1,2-Trichloro-1,2,2-Trifluoroethane		U	0.50	ug/L				
Carbon Disulfide		U	0.50	ug/L				
Acetone	9.6		5.0	ug/L				
Methyl Acetate		U	0.50	ug/L				
Methylene Chloride		U	0.50	ug/L				
trans-1,2-Dichloroethene		U	0.50	ug/L				
Methyl tert-Butyl Ether		U	0.50	ug/L				
1,1-Dichloroethane		U	0.50	ug/L				
cis-1,2-Dichloroethene		U	0.50	ug/L				
2-Butanone		U	5.0	ug/L				



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Project: Ringwood Mines - 1508008

	Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*
Field ID:	TB-01			San	nple ID: 1508008-08	
VOA	-TRACE GCMS Bromochloromethane		U	0.50	ug/L	
	Chloroform		U	0.50	ug/L ug/L	
	1,1,1-Trichloroethane		U	0.50	ug/L ug/L	
	Cyclohexane		U	0.50	ug/L ug/L	
	Carbon Tetrachloride			0.50		
			U		ug/L	
	Benzene		U	0.50	ug/L	
	1,2-Dichloroethane		U	0.50	ug/L	
	Trichloroethene		U	0.50	ug/L	
	1,2-Dichloropropane		U	0.50	ug/L	
	Bromodichloromethane		U	0.50	ug/L	
	cis-1,3-Dichloropropene		U	0.50	ug/L	
	4-Methyl-2-Pentanone		U	5.0	ug/L	
	Toluene		U	0.50	ug/L	
	trans-1,3-Dichloropropene		U	0.50	ug/L	
	1,1,2-Trichloroethane		U	0.50	ug/L	
	Tetrachloroethene		U	0.50	ug/L	
	Methylcyclohexane		U	0.50	ug/L	
	Dibromochloromethane		U	0.50	ug/L	
	1,2-Dibromoethane		U	0.50	ug/L	
	2-Hexanone		U	5.0	ug/L	
	Chlorobenzene		U	0.50	ug/L	
	Ethylbenzene		U	0.50	ug/L	
	m/p-Xylene		U	0.50	ug/L	
	o-Xylene		U	0.50	ug/L	
	Styrene		U	0.50	ug/L	
	Bromoform		U	0.50	ug/L	
	Isopropylbenzene		U	0.50	ug/L	
	1,1,2,2-Tetrachloroethane		U	0.50	ug/L	



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Project: Ringwood Mines - 1508008

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*		
Field ID: TB-01	Sample ID: 1508008-08						
VOA-TRACE GCMS 1,3-Dichlorobenzene		U	0.50	ug/L			
1,4-Dichlorobenzene		U	0.50	ug/L			
1,2-Dichlorobenzene		U	0.50	ug/L			
1,2-Dibromo-3-Chloropropane		U	0.50	ug/L			
1,2,4-Trichlorobenzene		U	0.50	ug/L			
1,2,3-Trichlorobenzene		U	0.50	ug/L			